

[ Claims

1. A multipole fused switch arrangement for busbar systems having at least two fused switch units (10) which each holds a fuse link (20), with the fused switch units (10) having a mounting and contact apparatus (11) for a busbar (90), and having a switching apparatus for closing and interrupting the circuit of all the switched fuse units (10), wherein the fused switch arrangement comprises a combined switching and blocking apparatus (30), having
- a switching lever (40) which can be switched to and fro between a switched-on position and a switched-off position,
  - an operating arrangement (60) for switching switching links (12) in the fused switch unit (10), in which case the operating arrangement (60) can switch to and fro between a contact position and an interrupted position,
  - in each case one blocking apparatus (70) for each fused switch unit (10) for blocking the operating arrangement (60) in the interrupted position, and
  - a locking apparatus (80) for locking the fuse links (20) in an operating position, in which case the locking apparatus (80) can be switched to and fro between a locked position and an isolating position,
- with the locking apparatus (80) being coupled to the switching lever (40) such that it is in the locked position when the switching lever (40) is in the switched-on position, and is in the isolating position when the switching lever (40) is in the switched-off position, with the operating

arrangement (60) being coupled to the switching lever (40) such that it is in the interrupted position when the switching lever (40) is in the switched-off position, and

5       with a blocking apparatus (70) blocking the  
operating arrangement (60) in the interrupted  
position when one of the fuse links (20) of the  
associated fused switch arrangement is not in its  
operating position.

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2. The fused switch arrangement as claimed in claim 1, wherein the operating arrangement (60) has a pushrod (61) for each fused switch unit (10), with the pushrods (61) being rigidly connected to one another.

3. The fused switch arrangement as claimed in claim 2, wherein each pushrod (61) rests on the spring-loaded switching links (12).

4. The fused switch arrangement as claimed in one of the preceding claims, wherein the operating arrangement (60) is coupled to the switching lever (40) via a switching rod (50).

5. The fused switch arrangement as claimed in one of the preceding claims, wherein the coupling between the operating arrangement (60) and the switching lever (50) is on one side, and only switching of the switching lever (40) from the switched-on position to the switched-off position results in force being exerted on the operating arrangement (60) in the direction of the interrupted position.

1. The first step is to identify the problem. This involves understanding the current situation, identifying the problem, and determining the scope of the problem.

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6. The fused switch arrangement as claimed in claim 4 or 5, wherein the switching rod (50) is guided in a recess (41) in the switching lever (40).

5 7. The fused switch arrangement as claimed in claim 6, wherein the recess (41) has a dead point (42) for switching which is essentially independent of manual switching.

10 8. The fused switch arrangement as claimed in one of the preceding claims, wherein the operating arrangement (60) is prestressed by at least one spring apparatus (62) in its contact position.

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15 9. The fused switch arrangement as claimed in one of the preceding claims, wherein each blocking apparatus (70) is prestressed by a spring apparatus (71) in a position which blocks the operating arrangement (60) in its interrupted position.

20 10. The fused switch arrangement as claimed in claim 9, wherein each blocking apparatus (70) is arranged such that the movement of the associated fuse link (20) to its operating position forces said blocking apparatus (70) against the spring force of the spring apparatus (71) to a position which releases the operating apparatus (60).

25 11. The fused switch arrangement as claimed in one of the preceding claims, wherein, in its blocking position, the blocking apparatus (70) engages in an opening (63) in the operating arrangement (60).

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12. The fused switch arrangement as claimed in one of

the preceding claims, wherein the locking apparatus (80) locks the fuse link (20) directly.

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5 13. The fused switch arrangement as claimed in one of claims 1 to 11, wherein the locking apparatus (80) locks the fuse link (20) indirectly via a fuse plug (25), in which the fuse link (20) is inserted.

10 14. The fused switch arrangement as claimed in claim 13, wherein the locking apparatus (80) has an interlocking element (82) which, in the interlocked position, engages in an interlocking manner in a latching element (27) on the fuse plug (25).

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